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PPLICATION NO.	FILING DA	ATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/050,663 01/16/2002		002	Adam E. C. Yeh	MS#183303.1 (4965) 6055		
321	7590 0	7/26/2005		EXAM	EXAMINER	
SENNIGER	POWERS LE	ORTIZ, É	ORTIZ, BELIX M			
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ST LOUIS,		2164				

DATE MAILED: 07/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Supplemental Notice of Allowability

Application No.	Applicant(s)	
10/050,663	YEH, ADAM E. C.	
Examiner	Art Unit	
Belix M. Ortiz	2164	

	Belix M. Ortiz	2164				
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not includ will be mailed in due	ed course. <b>THIS</b>			
1. X This communication is responsive to 3/28/2205.						
2. ☑ The allowed claim(s) is/are <u>1-60</u> .		•				
3. ☑ The drawings filed on 16 January 2002 are accepted by th	e Examiner					
<ul> <li>4. Acknowledgment is made of a claim for foreign priority ur</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority do</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> <li>Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM</li> </ul>	be been received. be been received in Application No cuments have been received in this of this communication to file a reply	national stage applica				
<ul> <li>THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> <li>5. A SUBSTITUTE OATH OR DECLARATION must be submined in the submined of the submi</li></ul>	es reason(s) why the oath or declarate st be submitted.	ation is deficient.	NOTICE OF			
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review ( PTO-	-948) attached	-			
<ol> <li>1) ☐ hereto or 2) ☐ to Paper No./Mail Date</li> <li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li> </ol>	s Amendment / Comment or in the C	Office action of				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			e back) of			
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>			Note the			
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<ol> <li>Notice of References Cited (PTO-892)</li> <li>D Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	<ol> <li>5. ☐ Notice of Informal F</li> <li>6. ☑ Interview Summary</li> </ol>	• • • • • • • • • • • • • • • • • • • •	0-152)			
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Da	Paper No./Mail Date 7. ⊠ Examiner's Amendment/Comment				
Paper No./Mail Date 4.  Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Ressons for All	owance.			
of Biological Material	9. Other	C. Ro	res			
		CHARLES RON PRIMARY EXAMI				

# **DETAILED ACTION**

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#### **EXAMINER'S AMENDMENT**

1. The following is an Examiner's statement of reasons for the indication of allowable subject matter: The prior art of record does not disclose, make obvious, or otherwise suggest the structure of the applicant's prediction program, prediction apparatus, and prediction method together with the other limitations of the independent claims.

The dependent claims being further limiting and definite are also allowable. Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably **accompany** the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Authorization for this examiner's amendment was given in an interview with Robert M. Bain on July 12, 2005.

# AMENDMENT TO THE CLAIMS:

Claims 1, 43-44, and 48 have been amended. Claim 1-60 remain pending in the application.

### WHAT IS CLAIMED IS:

1. (Currently Amended) One or more computer readable storage media having a data structure stored thereon, the data structure comprising:

a general dimension containing members in a plurality of levels, the levels being organized according to a hierarchy in which descending levels in the hierarchy are defined by increasing specificity; a summary cube containing the members of at least one upper level of the

general dimension; and

a detail cube, the detail cube including a horizontally partitioned

dimension containing a first subset of the members of at least one lower level of

the general dimension the lower level associated with the partitioned dimension

being lower in the hierarchy than the upper level associated with the summary

cube, the general dimension being horizontally partitioned based on a selected

member of the upper level to form the horizontally partitioned dimension, the first

subset of the members of the lower level corresponding to the selected member of

the upper level.

43. (Currently Amended) One or more computer-readable storage media

having computer-executable instructions for performing the method of claim 18.

44. (Currently Amended) One or more computer-readable storage media

having computer-executable components for processing data, the data being

organized in a dimension containing members in a plurality of levels, the levels

being organized according to a hierarchy in which descending levels in the

hierarchy are defined by increasing specificity, the components comprising:

a summary cube database component storing the members of an upper

level of the dimension;

a first partitioned dimension component containing a first subset of the

members of at least one lower level of the dimension, the lower level associated

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with the first partitioned dimension component being lower in the hierarchy than the upper level associated with the summary cube database component, the first subset of the members of the lower level being partitioned from the dimension based on a selected member of the upper level;

a first detail cube database component including the first partitioned dimension component and one or more sub-cubes containing aggregations of the first subset of the members of the lower level from the first partitioned dimension component; and

a template component for implementing a workflow to automatically create a second partitioned dimension component and a second detail cube database component the second partitioned dimension component containing a second of the members of the lower level of the dimension, the second subset of the members of the lower level being partitioned from the dimension based on another selected member of the upper level, the second detail cube database component including the second partitioned dimension component and one or more sub-cubes containing aggregations of the second subset of the member of the lower level from the second partitioned dimension component

48. (Currently Amended) one or more computer-readable <u>storage</u> media having computer-executable components for processing data, the data being organized in a dimension containing members in a plurality of levels, the levels being organized according to a hierarchy in which descending levels in the hierarchy are defined by increasing specificity, the components comprising:

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a summary cube database component storing the members of an upper level of the dimension;

a partitioned dimension component: containing a subset of the members of at least one lower level of the dimension, the lower level associated with the partitioned dimension component being lower on the hierarchy than the upper level associated with the summary cube database component, the subset of the members of the lower level being partitioned from the dimension based on a selected member of the upper level, the partitioned dimension component further containing the members of the upper level associated with the summary cube database component;

a detail cube database component including the partitioned dimension component and one or more sub-cubes containing aggregations of the subset of the members of the lower level from the partitioned dimension component the detail cube database component and the summary cube database component having the same dimensionality; and

a navigation component for implementing zoom in/zoom out events to navigate between information in the summary cube database component and information in the detail cube database component.

# Reasons for Allowance

1. Claims 1-60 are allowed.

2. The following is a statement of reasons for the indication of allowable subject matter: the prior arts of records, neither anticipates nor renders obvious the following limitations as claimed:

As to claims 1, 18, and 52 the prior art of records fail to anticipate or suggest one or more computer readable media having a data structure stored thereon, the data structure comprising:

a summary cube containing the members of at least one upper level of the general dimension; and

a detail cube, the detail cube including a horizontally partitioned dimension containing a first subset of the members of at least one lower level of the general dimension, the lower level associated with the partitioned dimension being lower in the hierarchy than the upper level associated with the summary-cube, the general dimension being horizontally partitioned based on a selected member of the upper level to form the horizontally partitioned dimension, the first subset of the member of the lower level corresponding to the selected member of the upper level, together with the other limitations of the independent claims.

As to claim 44 the prior art of records fail to anticipate or suggest a template component for implementing a workflow to automatically create a second partitioned dimension component and a second detail cube database component the second partitioned dimension component containing a second of the members of the lower level of the dimension, the second subset of the

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members of the lower level being partitioned from the dimension based on another selected member of the upper level, the second detail cube database component including the second partitioned dimension component and one or more sub-cubes containing aggregations of the second subset of the member of the lower level from the second partitioned dimension component, together with the other limitations of the independent claims.

As to claim 48 the prior art of records fail to anticipate or suggest a detail cube database component including the partitioned dimension component and one or more sub-cubes containing aggregations of the subset of the members of the lower level from the partitioned dimension component; the detail cube database component and the summary tube database component having thee same dimensionality; and

a navigation component for implementing zoom in/zoom out events to navigate between information in the summary cube database component and information in the detail cube database component, together with the other limitations of the independent claims.

The dependent claims being further limiting and definite are also allowable.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Belix M. Ortiz whose telephone number

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is 571-272-4081. The examiner can normally be reached on moday-friday 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Rones can be reached on 571-272-4085. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

bmo

July 13, 2005.

CHARLES RONES
PRIMARY EXAMINER